

Project # 407-0765**72nd Ave. / Dartmouth St. Culvert Replacement****Project Description**

The project upgrades an existing culvert located at the 72nd Avenue/Dartmouth Street intersection to provide additional culvert capacity to relieve flooding. Implementation of the project also addresses the culvert replacement goal of the Healthy Streams Plan initiated by Clean Water Services. The design for the upgrade will be combined with the 72nd/Dartmouth Intersection design already budgeted.

Location: 72nd Ave. & Dartmouth St.

Status: Proposed FY 2007-08
Funded

**Funding Sources:**

Water Quality / Quantity	<u>\$20,000</u>
Total Funding Sources	<u>\$20,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
--	-----------	-----------	-----------	-----------	-----------

Land/Right-of-Way

Pre-Design

Design & Engineering \$20,000

Construction

Total Costs \$20,000

Project Manager: Vannie Nguyen & Carla Staedter,
Capital Construction & Transportation /
Public Works

Project # 407-0837**Commercial St. Regional Detention Facility****Project Description**

This project constructs a regional storm water detention facility that would treat approximately 40 acres of storm water in and around the downtown Tigard area. Project design and permitting are scheduled to be completed in FY 2006-07. The construction of the facility will be combined with the Commercial Street improvements. The project will accomplish the outfall retrofit goal of the Healthy Streams Plan initiated by Clean Water Services.

Location: Commercial St.

Status: Proposed FY 2007-08
Funded

**Funding Sources:**

Water Quality / Quantity	<u>\$150,000</u>
Total Funding Sources	<u>\$150,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
--	-----------	-----------	-----------	-----------	-----------

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction	\$150,000
--------------	-----------

Total Costs	\$150,000
--------------------	------------------

Project Manager: Vannie Nguyen & Carla Staedter,
Capital Construction & Transportation /
Public Works

Project # 409-0669**Community Tree Planting****Project Description**

The City of Tigard will plant native trees and shrubs along creeks and streams in the city to meet the "Community Tree Planting" goals identified in the Healthy Streams Plan.

Location: TBD

Status: Proposed FY 2009-10
Funded

**Funding Sources:**

Water Quality / Quantity	<u>\$150,000</u>
Total Funding Sources	<u>\$150,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
--	------------------	------------------	------------------	------------------	------------------

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction			\$50,000	\$50,000	\$50,000
--------------	--	--	----------	----------	----------

Total Costs			\$50,000	\$50,000	\$50,000
--------------------	--	--	-----------------	-----------------	-----------------

Project Manager: Carla Staedter, Public Works

Project #409-0670

Culvert Replacement

Project Description

Modify Culvert (11975 SW Rose Vista Dr.) – The stream bank is eroded at this location due to high flows from culvert. This project will modify the downstream end of culvert that crosses underneath SW Gaarde to eliminate future erosion of stream bank and repair existing stream bank. This project will accomplish the outfall retrofit goal identified in Clean Water Services Healthy Streams Plan which requires the replacement of 3 culverts per year. The City has agreed to the replacement of 1 culvert per year based on funding availability.

Location: 11975 SW Rose Vista Dr.

Status: Proposed FY 2009-10
Funded



Funding Sources:

Water Quality / Quantity	<u>\$450,000</u>
Total Funding Sources	<u>\$450,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
Land/Right-of-Way					
Pre-Design					
Design & Engineering			\$125,000		
Construction				\$325,000	
Total Costs			\$125,000	\$325,000	

Project Manager: Vannie Nguyen & Carla Staedter,
Capital Construction & Transportation /
Public Works

Project # 407-0555 Derry Dell Creek Culvert Improvements (Fanno Cr. & Walnut St.)

Project Description

This project will complete design and permitting to upgrade the existing Derry Dell Creek culverts under Walnut Street and at Fanno Creek that was initiated in FY 06/07. The existing culverts will be replaced to increase capacity, provide fish passage, and address flooding and maintenance issues. The project will also accomplish the culvert replacement goal identified in Clean Water Services Healthy Streams Plan.

Location: Fanno Creek & Walnut St.

Status: Proposed FY 2007-08
Funded



Funding Sources:

Water Quality / Quantity	<u>\$400,000</u>
Total Funding Sources	<u>\$400,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
--	------------------	------------------	------------------	------------------	------------------

Land/Right-of-Way

Pre-Design

Design & Engineering	\$50,000				
----------------------	----------	--	--	--	--

Construction		\$350,000			
--------------	--	-----------	--	--	--

Total Costs	\$50,000	\$350,000			
--------------------	-----------------	------------------	--	--	--

Project Manager: Vannie Nguyen & Carla Staedter,
Capital Construction & Transportation /
Public Works

Project # 407-0677**Derry Dell Creek Tree Planting****Project Description**

This project includes site preparation and installation of 4,000 native trees and shrubs on 1.9 acres of riparian corridor. The sites are located upstream of Eden Court and downstream of 118th Court. The project will meet a “Community Tree Planting” goal identified in the Healthy Streams Plan.

Location: TBD

Status: Proposed FY 2007-08
Funded

**Funding Sources:**

Water Quality / Quantity \$25,000

Total Funding Sources **\$25,000**

Fiscal Years

2007-2008 2008-2009 2009-2010 2010-2011 2011-2012

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction \$25,000

Total Costs \$25,000

Project Manager: Carla Staedter, Public Works

Project # 407-0749 **Durham Rd. Stream Bank Stabilization (at 108th Ave.)**

Project Description

The creek bank and a portion of the segmental-block retaining wall south of Durham Road have been eroded and undermined due to high stream flow out falling from a 36-inch culvert under the street. The contributing factors to the problems are a large boulder, which was placed in the middle of the stream, and the culvert alignment, which does not line up with the creek. The original scope of work proposed in FY 2006-07, which included restoration of a portion of the retaining wall and extension of the culvert for proper alignment with the creek, has been revised to add bank stabilization.

Necessary easements have been obtained for the construction. Environmental permits and final design are scheduled to be completed in FY 2006-07. The fund will be used to construct the project, which is scheduled for the in-water work window of July 1 to September 30, 2007.

Location: Durham Rd. & 108th Ave.

Status: Proposed FY 2007-08
Funded



Funding Sources:

Storm Water	<u>\$150,000</u>
Total Funding Sources	<u>\$150,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
--	------------------	------------------	------------------	------------------	------------------

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction	\$150,000
--------------	-----------

Total Costs	\$150,000
--------------------	------------------

Project Manager: Vannie Nguyen, Capital Construction & Transportation

Project # 407-0766

Hiteon Creek Riparian Enhancement – Phase II

Project Description

This project constructs riparian enhancement features, including modifications of riparian buffer areas, to promote the treatment of high flows. It also includes removal of culverts and repair of the stream channel associated with an asphalt pedestrian path. In FY 2006-07 permitting was completed for the project. The proposed funding is to complete construction of the project. The project will accomplish culvert replacement, outfall retrofit, and community tree planting goals identified in Clean Water Services Healthy Streams Plan.

Location:

Status: Proposed FY 2007-08
Funded



Funding Sources:

Water Quality / Quantity	<u>80,000</u>
Total Funding Sources	<u>80,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
--	------------------	------------------	------------------	------------------	------------------

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction	\$80,000
--------------	----------

Total Costs	\$80,000
--------------------	-----------------

Project Manager: Carla Staedter, Public Works

Project # 407-0796**Riparian Restoration and Enhancement****Project Description**

This fund will be available for urban forestry projects within riparian corridors. The fund will also support any supplemental planting or site work needed in the event of an unforeseen failure to past riparian restoration projects.

Location: TBD

Status: Proposed FY 2007-08
Funded

**Funding Sources:**

Water Quality / Quantity	<u>\$70,000</u>
Total Funding Sources	<u>\$70,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
--	-----------	-----------	-----------	-----------	-----------

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction	\$10,000	\$10,000	\$10,000	\$10,000	\$30,000
--------------	----------	----------	----------	----------	----------

Total Costs	\$10,000	\$10,000	\$10,000	\$10,000	\$30,000
--------------------	-----------------	-----------------	-----------------	-----------------	-----------------

Project Manager: Carla Staedter, Public Works

Project # 408-0646**Stormwater Outfall Retrofits****Project Description**

The funding will be used to conduct a geotechnical study to determine the recommended repair method for each outfall retrofit project and to perform the repairs. The retrofits will be established as an annual program to address the outfall retrofit goals identified in Clean Water Services Healthy Streams Plan.

One project that has been identified for implementation is the outfall from Water Quality Facility #058 (12435 SW Hollow Ln.) – The outfall has a severely incised/eroded stream bank at this location. Other projects will be prioritized and selected each year (the number of projects dependent upon funding available annually) from the list identified by the Healthy Streams Plan.

Location: 12435 SW Hollow Ln.

Status: Proposed FY 2008-09
Funded

**Funding Sources:**

Water Quality / Quantity	<u>\$420,000</u>
Total Funding Sources	<u>\$420,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
Land/Right-of-Way					
Pre-Design		\$75,000			
Design & Engineering		\$75,000			
Construction			\$90,000	\$90,000	\$90,000
Total Costs		\$150,000	\$90,000	\$90,000	\$90,000

Project Manager: Brian Rager, Public Works

Project # 407-0762**Water Quality Enhancement****Project Description**

The projects under this program are focused on systematically upgrading existing water quality facilities that have deteriorated over the years. The funding will be from the non-SDC portion of the Water Quality/Quantity Fund. The amount allocated for each fiscal year should be able to address one or more projects annually. Some of the projects that have been identified for implementation during the 5-year plan period are as follows:

Water Quality Facility #030 (SW Steve St.) – This unnamed tributary to Ash Creek at this location is severely incised and threatening abutting properties. The project installs 150 feet of pipe in the most severely eroded areas and improves remaining area by re-grading and replanting as a storm water quality swale. Necessary permits and final design are scheduled to be completed in FY 2006-07.

Construction of the project will occur between July and October to meet the in-water work window requirement.

Water Quality Facility #012 (8865 SW Greensward) – This pilot project will install storm water infiltration system, fill and re-grade in preparation for neighborhood pocket park to be installed as funding allows. This project is expected to begin construction in FY 2008-09.

Water Quality Facility #007 (NW corner of intersection SW Walnut & 135th Ave) – Enhance aesthetics of water quality facility and improve storm water treatment by installing irrigation and, native plants & shrubs. This project is expected to begin construction in FY 2009-10.

Location: SW Steve St., SW Greensward,
SW Walnut & 135th

Status: Proposed FY 2007-08
Funded

**Funding Sources:**

Water Quality / Quantity \$125,000

Total Funding Sources **\$125,000**

Fiscal Years

2007-2008 2008-2009 2009-2010 2010-2011 2011-2012

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
--------------	----------	----------	----------	----------	----------

Total Costs	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
--------------------	-----------------	-----------------	-----------------	-----------------	-----------------

Project Manager: Brian Rager, Public Works

Project # 407-0759**Derry Dell Creek Slope Stabilization (at 118th Ct.)****Project Description**

In September 2006, the City discovered slope erosion and bank stability-related issues occurring at two locations in the vicinity of Derry Dell Creek and 118th Avenue. A geotechnical study has been conducted to determine reasons for the erosion and recommend slope stabilization techniques that would help keeping the slope from continuing to erode. Secured plastic sheeting has been placed at one location that appeared to be potentially unstable in December 2006. The funding provided is utilized for final design and repair of the problem at this location. Mitigation of the erosion at the second location is proposed for FY 2008-09.

Location: 118th Ct.

Status: Proposed FY 2007-08
Partially Funded

**Funding Sources:**

Storm Water	\$100,000
Unfunded Portion	\$100,000
Total Funding Sources	\$200,000

Fiscal Years

2007-2008 2008-2009 2009-2010 2010-2011 2011-2012

Land/Right-of-Way

Pre-Design

Design & Engineering	\$20,000	\$20,000
----------------------	----------	----------

Construction	\$80,000	\$80,000
--------------	----------	----------

Total Costs	\$100,000	\$100,000
--------------------	------------------	------------------

Project Manager: Vannie Nguyen, Capital Construction & Transportation

Project # 407-0248**Storm Drainage Major Maintenance Program****Project Description**

This yearly program addresses minor storm drainage problems requiring more than normal maintenance effort by the City's Public Works department. The Storm Drainage Major Maintenance Program includes projects located at various locations in the City.

Location: Various

Status: Proposed FY 2007-08
Partially Funded

**Funding Sources:**

Storm Water \$250,000

Total Funding Sources **\$250,000**

Fiscal Years

2007-2008 2008-2009 2009-2010 2010-2011 2011-2012

Land/Right-of-Way

Pre-Design

Design & Engineering	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
----------------------	----------	----------	----------	----------	----------

Construction	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
--------------	----------	----------	----------	----------	----------

Total Costs	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
--------------------	-----------------	-----------------	-----------------	-----------------	-----------------

Project Manager: Vannie Nguyen, Capital Construction & Transportation

Project # 407-0618

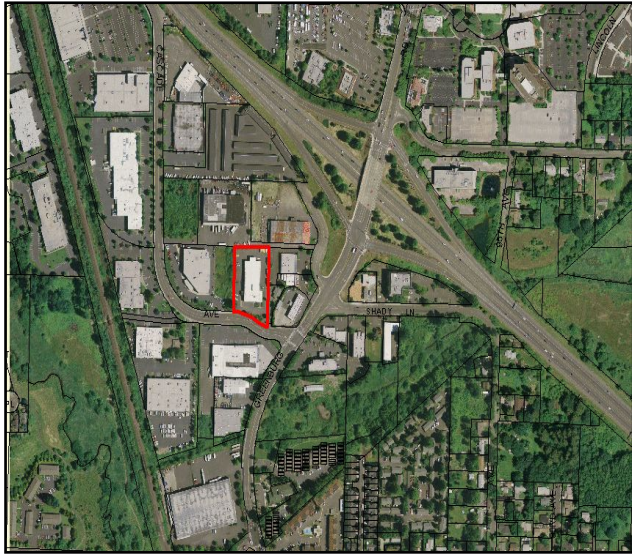
Cascade Ave. Storm Drain Overflow

Project Description

The project constructs 375 feet of overflow storm pipe to eliminate localized flooding in the area surrounding 10840 SW Cascade Ave.

Location: 10840 SW Cascade Ave.

Status: Proposed FY 2008-09
Unfunded



Funding Sources:

Storm Water	<u>\$100,000</u>
Total Funding Sources	<u>\$100,000</u>

Fiscal Years

2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
------------------	------------------	------------------	------------------	------------------

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction	\$100,000
--------------	-----------

Total Costs	\$100,000
--------------------	------------------

Project Manager: Brian Rager, Public Works

Project # 408-0854 Greens Way Storm Drainage Improvements

Project Description

This project installs approximately 900 feet of Polyvinyl Chloride (PVC) pipe, five manholes and seven catch basins between Highland and Summerfield Drive. The existing aluminized steel pipe has been gradually corroded, which has resulted in increased maintenance costs. The existing pipe will be abandoned in place to avoid extensive roadway excavation, which will help to protect the structure integrity of the street. The new pipe is expected to have a longer service life and adequate capacity to serve the neighborhood.

Location: Highland & Summerfield Dr.

Status: Proposed FY 2008-09
Unfunded



Funding Sources:

Storm Water	<u>\$125,000</u>
Total Funding Sources	<u>\$125,000</u>

Fiscal Years

	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012
--	-----------	-----------	-----------	-----------	-----------

Land/Right-of-Way

Pre-Design

Design & Engineering

Construction		\$125,000			
--------------	--	-----------	--	--	--

Total Costs		\$125,000			
--------------------	--	------------------	--	--	--

Project Manager: Vannie Nguyen, Capital Construction & Transportation